

CASE NO.: 50R4941.02
Serial No.: 10/766,145
November 14, 2004
Page 2

RECEIVED
CENTRAL FAX CENTER

NOV 22 2004

PATENT
Filed: January 27, 2004

1. (currently amended) An image display apparatus, comprising:
an emissive display having plural pixels;
at least one source of ultraviolet (UV) light; and
a pixel activation mechanism scanning the UV light onto the pixels in response to a demanded image, the mechanism including at least one grating light valve controllable by a processor to establish the demanded image.

2. (original) The apparatus of Claim 1, wherein the display is a large screen display.

3. (original) The apparatus of Claim 1, wherein the display is a phosphor display.

4. (original) The apparatus of Claim 3, wherein the phosphor display operates at atmospheric pressure.

5. (original) The apparatus of Claim 1, wherein the display is a liquid crystal display.

6. (canceled).

7. (currently amended) ~~The apparatus of Claim 1, comprising~~ An image display apparatus,
comprising:
an emissive display having plural pixels;

1166-52C.AMD

CASE NO.: 50R4941.02
Serial No.: 10/766,145
November 14, 2004
Page 3

PATENT
Filed: January 27, 2004

at least one laser source of ultraviolet (UV) light; and
plural GLVs controllable by a processor to establish [the] demanded image.

8. (currently amended) ~~The apparatus of Claim 7, comprising~~ An image display apparatus,
comprising:

an emissive display having plural pixels;

at least one source of ultraviolet (UV) light;

a pixel activation mechanism scanning the UV light onto the pixels in response to a demanded
image; and

at least one beamsplitter receiving UV light from the source and directing respective UV
beams to the GLVs pixel activation mechanism.

9. (currently amended) ~~The apparatus of Claim 7, comprising~~ An image display apparatus,
comprising:

an emissive display having plural pixels;

at least one source of ultraviolet (UV) light;

a pixel activation mechanism scanning the UV light onto the pixels in response to a demanded
image; and

plural scanning mirrors, ~~each mirror being~~ associated with the pixel activation mechanism,
~~a respective GLV,~~ each mirror being oscillated about a respective axis.

1166-53C.AMD

CASE NO.: 50R4941.02
Serial No.: 10/766,145
November 14, 2004
Page 4

PATENT
Filed: January 27, 2004

10. (currently amended) The apparatus of Claim 9, wherein the pixel activation mechanism comprises three and only three GLVs, a first GLV being controlled to direct UV light onto only blue subpixels of the display, a second GLV being controlled to direct UV light onto only red subpixels of the display, and a third GLV being controlled to direct UV light onto only green subpixels of the display.

11. (currently amended) ~~The apparatus of Claim 7, further comprising~~ An image display apparatus, comprising:

an emissive display having plural pixels;

at least one source of ultraviolet (UV) light;

a pixel activation mechanism scanning the UV light onto the pixels in response to a demanded image; and

at least one mask having plural excitation light apertures defining respective pitches, the mask being interposed between the GLVs pixel activation mechanism and the display, the pitches between the excitation light apertures being established based on the locations of the respective excitation light apertures relative to the display.

12. (original) The apparatus of Claim 1, wherein the source is a laser.

13. (original) The apparatus of Claim 1, wherein the display includes at least one substrate, plural pixels being established on the substrate, each pixel being established by respective red, green, and blue subpixels, at least one light refracting layer covering the pixels and opposed to the substrate.

1106-52C.AMD

CASE NO.: 50R4941.02
Serial No.: 10/766,145
November 14, 2004
Page 5

PATENT
Filed: January 27, 2004

14. (original) The apparatus of Claim 13, wherein the pixel activation mechanism directs first, second, and third UV beams against the refracting layer at respective first, second, and third angles, whereby the first, second, and third beams are refracted by the refracting layer only onto respective red, green, and blue subpixels.

15. (original) The apparatus of Claim 14, further comprising a color selection mask layer juxtaposed with the refracting layer for shielding the blue and green subpixels from the first beam, shielding the red and green subpixels from the second beam, and shielding the red and blue subpixels from the third beam.

16-38 (canceled).

1168-32C.AMD